



# Bavarian expert on EU – funding advisory services

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**BayFOR** 

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Engineering & Natural Sciences











- 1. Introduction BayFOR
- 2. BayFOR Services
- 3. HEU & Materials Topics
- 4. Hints for a successful proposal









## 1. Introduction - BayFOR

- 2. BayFOR Services
- 3. HEU & Materials Topics
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## The Bavarian Research Alliance (BayFOR)

Initiative to promote Bavarian stakeholders into European projects, mainly for Horizon EUROPE

Founded 2006/2007 by our Associates



Associates:
 University of Bavaria e.V. (11 x in Bavaria) and
 The Bavarian Universities of Applied Sciences e.V. (20 x in Bavaria)

Nürnberg

- Funded by the Bavarian state government and the BayFOR associates
- Headquarters in Munich, with branch in Nuremberg and liaison office in Brussels
- BayFOR and its partners and cooperations:



- in regional networks: Bavarian Research and Innovation Agency (BayFIA)
- in international networks: EU-funded Enterprise Europe Network (**EEN**)
- with German NCPs and international networks/ EU-Partnerships (e.g. BEPA..)







## BayFOR as a partner institution in the Bayarian Research and Innovation Agency (BayFIA)

Initiative of the Bavarian state government in order to improve:

- Efficiency in technology transfer within Bavaria
- Advisory services on funding possibilities at regional, national and European level (website: www.research-innovation-bavaria.de)
- EU fund acquisition through Bavarian stakeholders, esp. universities and SMEs
- The innovation potential of Bavarian SMEs through qualified advisory services
- The transfer of research findings into innovative products or services

#### Synergy effects through close cooperation of four experienced partners:







bayern () innovativ







1. Introduction - BayFOR

2. BayFOR – Services

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## **BayFOR services**

## 1. Project administrator for BayIntAn

Bavarian Funding Programme
 for the Initiation of International Projects







### 2. Advisory services for mainly EU funds for R&I

- inform, advise, partner search, application support...
- Mainly on HORIZON EUROPE, DIGITAL EUROPE, ERA-NET,
   CEF, EFRE, ECSEL, Eurostars/EUREKA, IPCEI, KIC, PENTA...

#### 3. Various EEN services

BayFOR as Bavarian EEN partner supports Bavarian SMEs

- advice & support
- connecting partners
- supporting innovation











## 1. Project administrator for BayIntAn

Bavarian Funding Programme for the Initiation of International Projects

- Establishing/Increasing international network/cooperation of Bavarian universities (of applied sciences) for participation in mainly EU research projects
- Entitled to apply: scientists of Bavarian state and state supported non-state universities and universities of applied sciences
- Partners: at least one international partner
- Maximum grant per application: € 10,000
- Used for grants for travel and accommodation expenses and in exceptional cases material costs. BayIntAn is based on partial financing
- Further costs: The comprehensive funding of the projects must be ensured by the partners involved

Contact: <a href="mailto:internationalisierung@bayfor.org">internationalisierung@bayfor.org</a>

Information: <u>www.bayfor.org/internationalisation</u>

 Subsidised by: Bavarian State Ministry of Science and the Arts







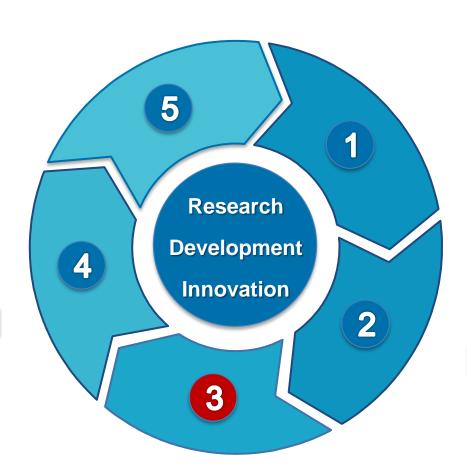
## 2. BayFOR as "full service provider"

#### 5 Project management

- Administrative project management for EU projects
- Workshops/trainings for project participants
- Advice on questions related to EU project management
- Public relations for EU projects

#### 4 Project implementation

- Support for grant agreement preparation
- Assistance with financial and organizational issues



#### 1 Information

- General and call-specific expert advice on EU funding schemes
- Assistance in assigning project ideas to the appropriate funding scheme

#### 2 Advisory services

- General and call-specific expert advice on EU funding schemes
- Assistance in assigning project ideas to the appropriate funding scheme

#### 3 EU application support

- Active support for the entire application process
- Preparation of call-specific information material
- Assistance in the search for cooperation partners (EU/Intl.)







### 3. Various EEN-Services

- EEN: world's largest support network for SMEs with international ambitions
- 3000 experts in over 600 member organizations in more than 60 countries
- A broad range of EEN services:



**Business Support at Your Doorstep** 

INTERNATIONAL **PARTNERSHIPS** 

Partnership database

**Brokerage events** 

**Company missions** 

**ADVISORY SUPPORT** 

Advice on EU laws and standards

**Market intelligence** 

**IPR** expertise

INNOVATION **SUPPORT** 

Access to finance and funding

**Innovation Management Services** 

**Technology transfer** 

In Bavaria, SMEs are supported by **10 EEN partners** (<u>www.een-bayern.de</u>):





























## Our services for you:

- Finding a match of your idea to an EU topic
- Finding Bavarian ↔ international partners for EU-proposal
- Support of your EU-application / proposal in case of Bavarian participation

Feel free to contact us

as early as possible

so that we can support you

agile & appropriately









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## Horizon Europe (HEU) structure

#### Pillar I

**Excellence Science** 

European Reasearch Council (ERC)

Marie-Sklodowska-Curie action (MSCA)

Research infrastructures

#### Pillar II

Global Challenges and European Industrial Competitevness

- 1. Health
- 2. Culture, Creativity and inclusive society
- 3. Civil security for society
- ២ <mark>4. Digital, Industry and Space</mark>
- 5. Climate, Energy and Mobility
- 6. Food, Bioeconomy, natural Ressorces, Agriculture and Environment

Joint Research centre

### Pillar III

**Innovative Europa** 

European Innovation council (EIC)

European innovation ecosystem

European Institute of Innovation and Technology (EIT)

No thematical area given Bottom-up

low TRL
Basic research

thematical area given

Top-down

high TRL
Industry, close-to-market

No thematical area given

**Bottom-up** 

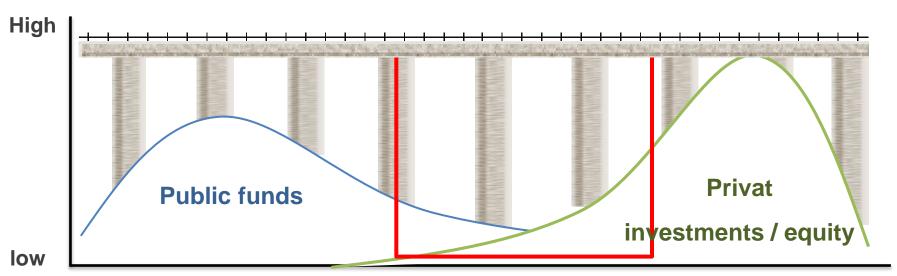
overarching TRL SME, Start-up, Uni







## **HORIZON EUROPE: closing the funding gap**



**Technology Readiness Level (TRL)** 

Valley of death



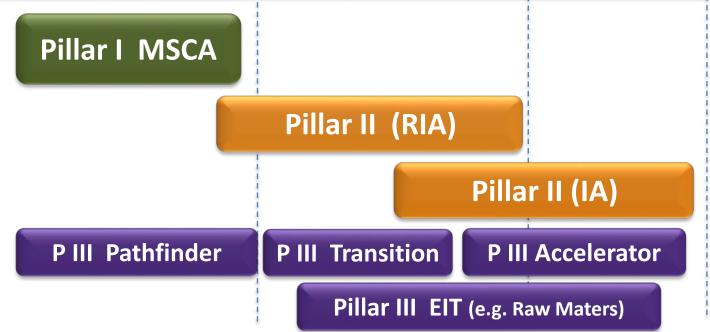






## HORIZON EUROPE - TRL correlation to pillars I - III

TRL	1	2	3	4	5	6	7	8	9
Definition		Technology concept formulated	Experiment. Proof of concept	Technology validated in lab	relevant	Technology demonstrate d in relevant environment	on	complete and qualified	System proven in operational environment



## EU POLICY PRIORITIES



• Overall Priorities of the EU (Green Deal, Fit for Digital Age...)

#### **KEY STRATEGIC ORIENTATIONS**

 Set of strategic objectives within the EC policy priorities where R&I investments are expected to make a difference

#### **IMPACT AREAS**

• Group of expected impacts highlighting the most important transformation to be fostered through R&I

#### EXPECTED IMPACTS = DESTINATIONS

• Wider long term effects on society (incl. Environment), the economy and science described under a given destination and enabled by the outcomes of R&I investments

#### **EXPECTED OUTCOMES = TOPICS**

• Expected effects of the projects supported under a given topic, fostered by the dissemination and exploitation measures. This may include uptake, diffusion, deployment, and/or use of the project results by target groups

#### **PROJECT RESULTS**

• What is generated during the project implementation, e.g. know-how, innovative solutions, algorithms, proof of feasibility, new business models, policy recommendations, prototypes, demonstrators, datasets, trained researchers, new infrastructure, etc.



Work Programm







## 6 Destinations:

#### D1:

Climate neutral, circular and digitized production

#### <u>D2:</u>

Increased autonomy in key strategic value chains for resilient industry

#### D3:

World leading data and computing technologies

#### <u>D4:</u>

Digital and emerging technologies for competitiveness and fit for the green deal

#### D5:

Open strategic autonomy in developing, deploying and using global space-based infrastructures, services, applications, and data

#### D6:

A human-centered and ethical development of digital and industrial technologies









# Dest. 1: Climate neutral, circular and digitized production

Al; robotics; smart, green, agile, data-driven manufacturing; zero-defect; laser; bio-based materials; automatisation

utilisation of energy, water, waste; plastic waste

Sectors: construction; metallurgy; steel; process industry

# Dest. 2: Increased autonomy in key strategic value chains for resilient industry

Materials: Composites, raw, Africa, value chains, sustainable-by-design; plastic & polymers; chemicals

Product life-cycle; Bio-materials database; Nano-coatings; metallic coatings

Social factory/housing; hydrogen storage; solar fuels; catalytic reactors









Dest. 3: World leading data and computing

technologies

Data: green & responsible; management; mining, aggregation

Cloud-Edge-IoT; meta operating systems; next generation computing & systems

#### Dest. 4:

Digital and emerging technologies for competitiveness and fit for the green deal Processors: ultra-low-power, secure, open source; functional electronics;



Photonics: optical communication; integrated circuits

6G-Network; AI, Data & Robotics; spintronics; bio-intelligent manufacturing; quantum computing/communication/sensing;









Dest. 5:

Open strategic autonomy in developing, deploying and using global space-based infrastructures, services, applications, and data

Dest. 6:

A human-centered and ethical development of digital and industrial technologies

Satellite communication; on-orbit operations;

Copernicus: services for climate, atmosphere, security, emergency

EGNSS: Green Deal, Safety, crisis, digital age

AI: trust; EU-Network of AI Excellence clusters; gender, race and other biases; disinformation

Internet of trust; next generation internet; art-driven use experiments and design

eXtended Reality: modelling, collaborative telepresence, media, ethics, interoperability; workforce for industry 5.0









HEU > Pillar II > Cluster 4 > Destination 1 + 2

#### **DESTINATION 1 – CLIMATE NEUTRAL, CIRCULAR AND DIGITISED PRODUCTION**

#### Call - TWIN GREEN AND DIGITAL TRANSITION 2021 (Production) (CL4-2021-TWIN-TRANSITION)

- Plastic waste as a circular carbon feedstock for industry (Processes4Planet Partnership) (IA)
- Improvement of the yield of the iron and steel making (Clean Steel Partnership) (IA)
- Reducing environmental footprint, improving circularity in extractive and processing value chains (IA)

#### Call - CLIMATE NEUTRAL, CIRCULAR AND DIGITISED PRODUCTION 2022 (CL4-2022-TWIN-TRANSITION)

- Products with complex functional surfaces (Made in Europe Partnership) (RIA)
- Enabling circularity of resources in the process industries, including waste and CO2/CO
- Valorisation of CO/CO2 streams into added-value products of market interest (Processes4Planet Partnership) (IA)
- Raw material preparation for clean steel production (Clean Steel Partnership) (IA)
- New electrochemical conversion routes for the production of chemicals and materials in process industries (Processes4Planet Partnership) (RIA)
- Integration of hydrogen for replacing fossil fuels in industrial applications (Processes4Planet Partnership) (IA)





HEU > Pillar II > Cluster 4 > Destination 1 + 2

## DESTINATION 2 – INCREASED AUTONOMY IN KEY STRATEGIC VALUE CHAINS FOR RESILIENT INDUSTRY Call - A DIGITISED, RESOURCE-EFFICIENT AND RESILIENT INDUSTRY 2021 (CL4-2021-RESILIENCE)

- Ensuring circularity of composite materials (Processes4Planet Partnership) (RIA)
- Identifying future availability of secondary raw materials (RIA)
- Developing climate-neutral and circular raw materials (IA)
- Building EU-Africa partnerships on sustainable raw materials value chains (CSA)
- Innovation for responsible EU sourcing of primary raw materials, the foundation of the Green Deal (RIA)
- Building innovative value chains from raw materials to sustainable products (IA)
- Establishing EU led international community on safe- and sustainable-by-design materials to support embedding sustainability criteria over the life cycle of products and processes (CSA)
- Promote Europe's availability, affordability, sustainability and security of supply of essential chemicals and materials (IA)
- Paving the way to an increased share of recycled plastics in added value products (RIA)
- Safe- and sustainable-by-design polymeric materials (RIA)
- Advanced materials for hydrogen storage (RIA)







HEU > Pillar II > Cluster 4 > Destination 1 + 2

## DESTINATION 2 – INCREASED AUTONOMY IN KEY STRATEGIC VALUE CHAINS FOR RESILIENT INDUSTRY Call - A DIGITISED, RESOURCE-EFFICIENT AND RESILIENT INDUSTRY 2021 (CL4-2021-RESILIENCE)

- Safe- and sustainable-by-design metallic coatings and engineered surfaces (RIA)
- Development of more energy efficient electrically heated catalytic reactors (IA)
- Creation of an innovation community for solar fuels and chemicals (CSA)
- Advanced materials for hydrogen storage (RIA)
- Antimicrobial, Antiviral, and Antifungal Nanocoatings (RIA)

#### Call - A DIGITISED, RESOURCE-EFFICIENT AND RESILIENT INDUSTRY 2022 (CL4-2022-RESILIENCE)

- Innovative materials for advanced (nano)electronic components and systems (RIA)
- Advanced lightweight materials for energy efficient structures (RIA)
- Functional multi-material components and structures (RIA)
- Safe- and sustainable-by-design organic and hybrid coatings (RIA)
- Smart and multifunctional biomaterials for health innovations (RIA) 166
- Membranes for gas separations membrane distillation (IA) 167









> Pillar II > Cluster 4 > Destination 1 + 2 HEU

**DESTINATION 4 – DIGITAL AND EMERGING TECHNOLOGIES FOR** COMPETITIVENESS AND FIT FOR THE GREEN DEAL Call - DIGITAL AND EMERGING TECHNOLOGIES FOR COMPETITIVENESS AND FIT FOR THE GREEN DEAL (CL4-2022-DIGITAL EMERGING)

- New generation of advanced electronic and photonic 2D materials-based devices, systems and sensors (RIA)
- 2D materials-based devices and systems for energy storage and/or harvesting (RIA)
- 2D materials-based devices and systems for biomedical applications (RIA)
- 2D-material-based composites, coatings and foams (IA)
- Supporting the coordination of the Graphene Flagship projects (CSA)









## Horizont Europa (HEU): 2021 - 2027 prelamin. structure

#### Pillar I

**Excellence Science** 

European Reasearch Council (ERC)

Marie-Sklodowska-Curie action (MSCA)

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Global Challenges and European Industrial Competitevness

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No thematical area given Bottom-up

low TRL
Basic research

thematical area given

Top-down

high TRL Industry, close-to-market No thematical area given Bottom-up

overarching TRL SME, Start-up, Uni







## **6 Destinations:**

#### <u>D1:</u>

Climate sciences and responses

#### D3:

Sustainable, secure and competitive energy supply

#### D5:

Clean and competitive solutions for all transport modes

#### <u>D2:</u>

Cross-sectorial solutions for climate transition

#### D4:

Efficient, sustainable, and inclusive energy use

#### D6:

Safe, Resilient
Transport and Smart
Mobility services for
passengers and goods









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#### Dest. 2:

Cross-sectorial solutions for climate transition

Battery: raw materials; recycling; high-performance; LiB (Generations 3b, 4a, 4b); EV; other applications; cell manufacturing; manufacturing technologies

Emerging technologies: Fuel cells, energy generators/distribution/storage, negative GHG emissions; methane cracking; non-CO2 GHG removal; carbon capture; SSH for climate, energy & mobility; super-labs

#### Dest. 4:

Efficient, sustainable, and inclusive energy use



Energy-efficient buildings: certification; renovation; monitoring; heat supply; heat-to-power conversion; technology integration; recycled materials; EU Bauhaus;









Dest. 5: Clean and competitive solutions for all

transport modes

Dest. 6: Safe, Resilient Transport and Smart Mobility services for passengers and goods Zero emission; BEV components/charging; Battery value chain

Aviation technologies – greenhouse gases; digital manufacturing/maintenance

Low-carbon, clean, smart waterborne transport

Environment, human health: tailpipe/brake; noise/particle emission

Connected, Cooperative, Automated Mobility: safety; on-board perception; infrastructure; cyber security; societal aspects; large scale demonstrations

Multimodal, sustainable Transport systems: freight; green last mile; infection on ships; safe automation @ aviation

Safety & resilience @ all modes: safe lightweight vehicles; road safety in Africa









HEU > Pillar II > Cluster 5 + 6 > Destination 2

#### Cluster 5

**DESTINATION 2 – Cross-sectoral solutions for the climate transition (Materials & Production on Battery)** 

CL5-2021-D2-01-01: Sustainable processing, refining and recycling of raw materials

CL5-2021-D2-01-02: Advanced high-performance Generation 3b Li-ion batteries supporting.. mobility..

CL5-2021-D2-01-03: Advanced high-performance Generation 4a, 4b (solid-state) Li-ion batteries....

CL5-2021-D2-01-04: Environmentally sustainable processing techniques applied to large scale electrode and cell component manufacturing for Li ion batteries

CL5-2021-D2-01-05: Manufacturing technology development for solid-state batteries....

#### Cluster 6

Destination 2 – Fair, healthy and environmentally-friendly food systems from primary production to consumption

CL6-2021-CIRCBIO-01-04: Increasing the circularity in textiles, plastics and/or electronics value chains CL6-2022-CIRCBIO-02-01: Integrated solutions for circularity in buildings and the construction sector CL6-2022-CIRCBIO-02-03: Sustainable biodegradable novel bio-based plastics: innovation for sustainability and end-of-life options of plastics









- 1. Introduction BayFOR
- 2. BayFOR Services
- 3. Areas: Materials & Production

4. Tipps & Tricks



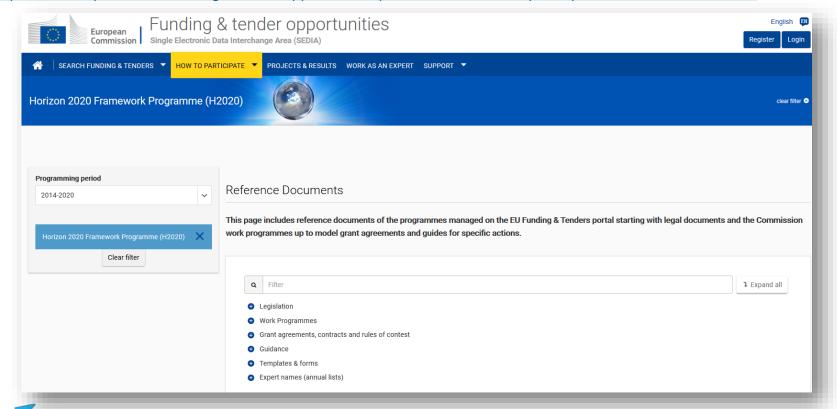






# Funding & Tender Portal: start & submit a Proposal; Call Info; Project Management; Work Programme Dokument; Partner Search; Search for Keywords; Become Evaluator

https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/how-to-participate/reference-documents

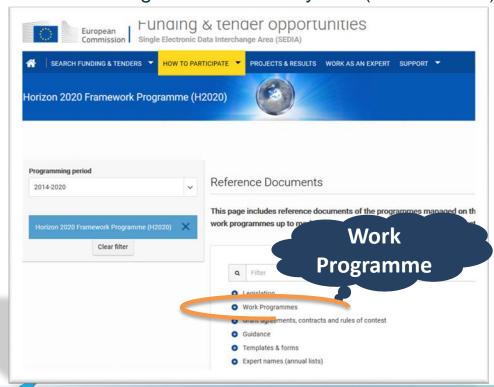






## From Work Programme to Topic

- ➤ Topics are highly related to current EU policy: Green Deal, COVID, SDGs, Citizen engagement, global competition, ...
- ➤ HORIZON EUROPE → Work Programme → Destination → Call → Topic
- ➤ Work Programmes for two years (2021 2022)

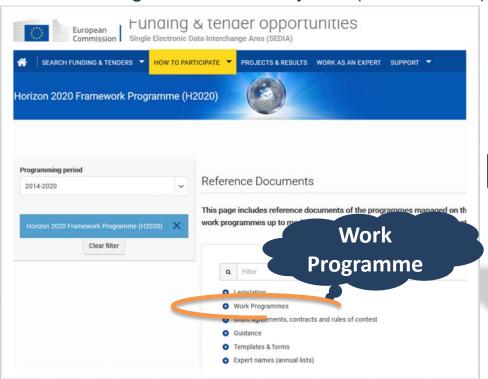






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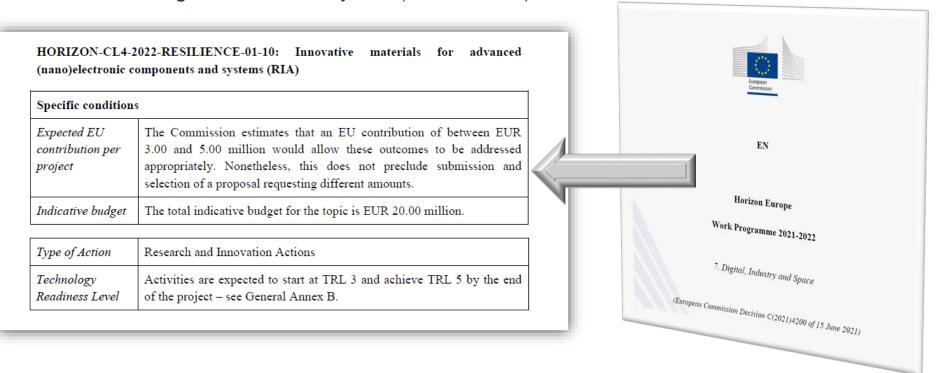






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## HORIZON-CL4-2022-RESILIENCE-01-10: Innovative materials for advanced (nano)electronic components and systems (RIA)

Specific conditions					
Expected EU contribution per project	The Commission estimates that an EU contribution of between EUR 3.00 and 5.00 million would allow these outcomes to be addressed appropriately. Nonetheless, this does not preclude submission and selection of a proposal requesting different amounts.				
Indicative budget	The total indicative budget for the topic is EUR 20.00 million.				

Type of Action	Research and Innovation Actions
-	Activities are expected to start at TRL 3 and achieve TRL 5 by the end of the project – see General Annex B.

Unified
TOPIC-Structure
for all
Work Programmes

Budget

≈≈

consortium

+

Use cases/equipment









### **Keywords?**

Expected Outcome: Projects are expected to contribute to the following outcomes:

- Develop innovative new components and systems with enhanced and new functionalities
  and improved performance enabling added value to the European industry in sectors
  such as healthcare and wellbeing, mobility and transportation, aeronautics, environment
  monitoring, security and safety energy, smart cities, smart textiles and manufacturing;
- Impacts are also envisaged to smart grids, efficient through life performance monitoring, smart manufacturing and digital industry with increased computing performance and efficient data storage.





<u>Scope</u>: Europe aims to become a global role model for the digital economy and society. Electronic components and systems (ECS) are the building blocks for this. Electronic components and systems are core enablers and differentiators for the development of many innovative products and services in all sectors of the economy.

Research and innovation are key to maintain the competitiveness of the European ECS industry, generating growth, creating value, jobs and prosperity. Materials innovation lies at the heart of this endeavour.

"All", "at least one"?

Actions under this topic must address one or more of the following technologies:

- Innovative materials design and processing for devices based on new and emerging technologies, including advanced methods of data driven materials design, for e.g. spintronics, neuromorphic, in-materio computing multisensing, photonics, nanomechanics advanced ferroelectrics or biosensing;
- Heterogeneous integration of new materials (such as PZT, graphene, titanium oxide or aluminium oxide, etc.) for miniaturised sensor and actuator modules.





Proposals should indicate the key quantitative specifications to be achieved and develop demonstrator components/systems to showcase the desired functionalities together with the increased efficiency, reliability and manufacturability. Proposals are also expected to prove the industrial relevance of the intended approach, establishing links to applications likely to benefit from the development. End-of-life issues should be addressed.

Proposals submitted under this topic should include a business case and exploitation strategy, as outlined in the introduction to this Destination.

This topic is open for international cooperation where the EU has reciprocal benefit, while excluding industrial competitors from countries where the safeguarding of IPRs cannot be guaranteed.







## **EU-Project HyFlow**

Development of a sustainable hybrid storage system based on high power vanadium redox flow battery and supercapacitor

Coordinator Prof. Karl-Heinz Pettinger, HAW Landshut / TZ Energie

Consortium 11 Partner from Germany, Austria, Czech Republic,

Portugal, Spain, Italy and Russia

Funding Horizon 2020 (Hybridisation of battery systems for stationary energy)

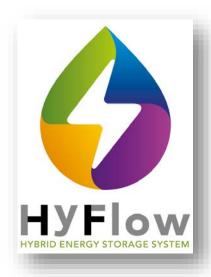
Scheme GA Number 963550

Funding 4 Mio. €

Project time 3 years (11/2020 – 10/2023)

Internet www.hyflow-h2020.eu











## EU-Project CARAMEL (H2020)

"Artificial Intelligence based cybersecurity for connected and automated vehicles"

Coordinator FUNDACIO PRIVADA I2CAT, INTERNET I INNOVACIO DIGITAL A CATALUNYA (Spanien)

Consortium 19 partner from 9 European countries (ES, NL, UK, DE, ZY, AT, HEL, PT ..)

i.a.: 3x South-Korea; ALTRAN, T-Systems, Panasonic Automotive;

Funding <u>H2020-INDUSTRIAL LEADERSHIP - Information Communication Technologies (ICT)</u>

Scheme

Funding 4.99 Mio. € (Overall Budget: 7.0 Mio. €)

Project 3 years (10/2019 – 03/2022)

Lifetime

Internet <a href="https://www.h2020caramel.eu/">https://www.h2020caramel.eu/</a>





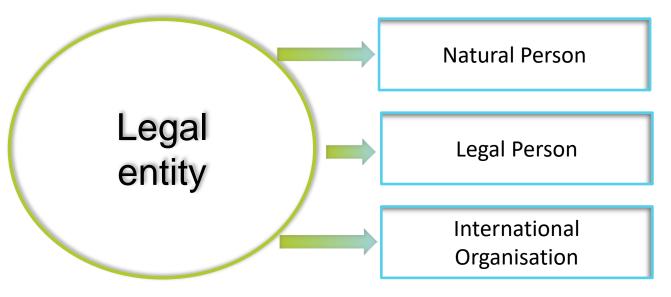






### Rules of participation

A consortium shall include at least three independent legal entities each established in a different Member State or associated country and with at least one of them established in a Member State



### Examples:

- Public Corporations (e.g. universities or cities)
- Research Institutes
- Industry
- Associations
- Individuals







## Horizon Europe – most important types of action

## Research & Innovation actions (RIA)

- Consortium
- Activities aiming to establish new knowledge and/or to explore the feasibility of a new or improved technology, product, process, service or solution.
- basic and applied research

max. 100% funding rate

## Innovation actions (IA)

- Consortium
- Activities directly aiming at producing plans and arrangements or designs for new, altered or improved products, processes or services.

max. 70% funding rate, Exception: 100% for non-profit-organizations)

## Coordination & support actions (CSA)

- Consortium or single applicants
- Accompanying measures such as standardization, dissemination, awarenessraising and communication, networking, coordination or support services, policy dialogues and mutual learning exercises and studies.

max. 100% funding

Additional 25% Overhead on all direct costs (except subcontracting)







## **EU-Projects in HORIZON: hints and tipps**

HORIZON EUROPE is not solely a research framework programme

EU-projects are evaluated according to their impact to EU policies

EU-Projects are usually oriented towards real life challenges

Becoming an evaluator could be your first step into the "EU game"

First Deadlines September / October 2021

Global "success rate": 3% – 20%







## **EU-Projects in HORIZON: key factors - consortium**

Consortium: University, Industry, Cities, Institutes, Cluster, Associations, ...

On average 7-15 partner from 4-8 countries

Non-EU partner possible

Choose partner according to competence and portfolio

Coordinator and Commission sign Grant Agreement

Proposal becomes integral part of GA

All other partner accede the Consortium Agreement

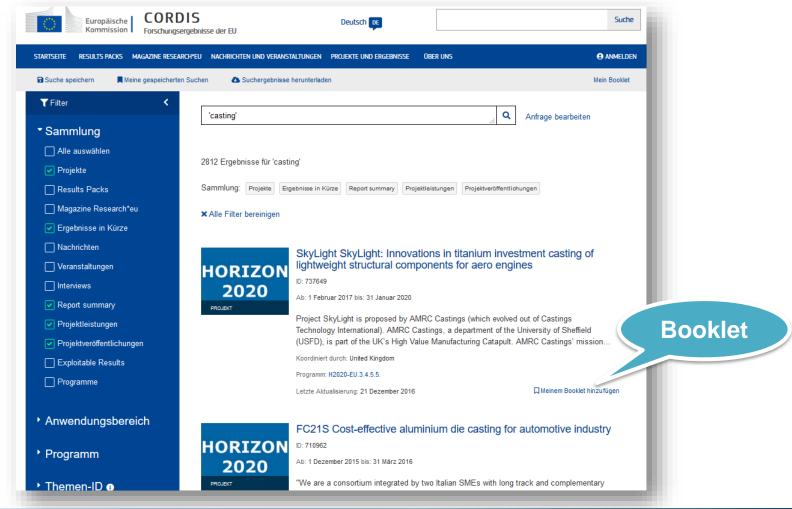








## **Cordis Portal: Information on EU-Projects**









### Finance:

**Direct Cost** 

**Personnel** 

**Subcontracting** 

Other direct costs:

Travel costs

**Machine hours** 

Material / services

**Dissemination Activities** 

**Publications** 

Indirect Cost (Overhead)

25% on direct costs

**Except subcontracting** 

Electricity, Heat

Office Material

Storage

Services not related to project

Costs must occur during project lifetime



# Role of the coordinator

→ A question of personality







Lead the way



**Grant Agreement** 

= contract with commission



Single contact point to commission

Management of Consortium

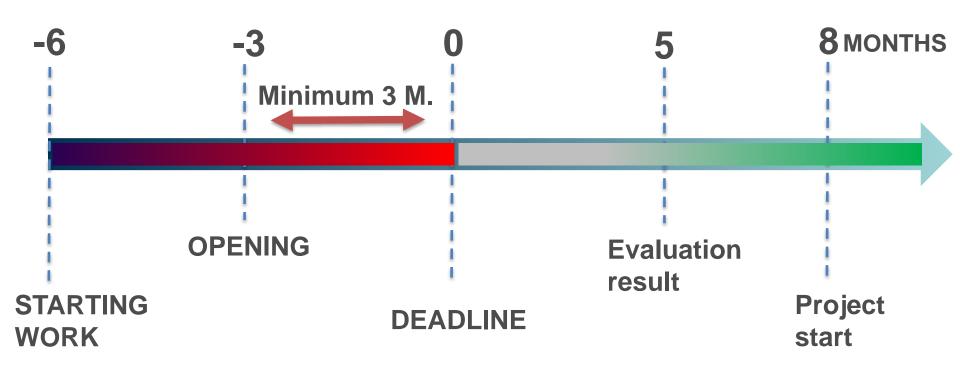
i.a. Consortium Agreement







### **HORIZON PROPOSAL – timeline**











### Keep in mind:

Holistic solutions / cross-sector

Intrinsic motivation on EU business

Open to the world

Thorough planning necessary

Look for active partners that want to be involved

If possible, aim for women in leading positions









### **European Partnership Initiatives** – 50 thematic networks

European stakeholders: companies, universities, institutes, associations, cities

Development and implementation of a research and innovation program

Writing topics for work programs

Partially own partnership topics





#### **HEALTH**

- 1. EU-Africa Global Health Partnership
- 2. Innovative Health Initiative
- 3. European partnership for chemicals risk assessment
- 4. Fostering an ERA for Health research
- 5. Health and Care Systems Transformation
- 6. Personalised Medicine
- 7. Rare Diseases
- 8. One Health AMR

#### CLIMATE, ENERGY AND MOBILITY

- 19. Transforming Europe's rail system
- 20. Integrated Air Traffic Management
- 21. Clean Aviation
- 22. Clean Hydrogen
- 23. Built environment and construction
- 24. Towards zero-emission road transport (2ZERO)
- 25. Mobility and Safety for Automated Road Transport
- 26. Zero-emission waterborne transport
- 27. European industrial battery value chain
- 28. Sustainable, Smart and Inclusive Cities and Communities
- 29. Clean Energy Transition

### PILLAR I, III OR CROSS-PILLAR

- 38. Innovative SMEs
- 39. European Science Cloud (EOSC)
- 40. EIT Climate-KIC
- 41. EIT InnoEnergy
- 42. EIT Digital
- 43. EIT Health
- 44. EIT Food
- 45. EIT Manufacturing
- 46. EIT Raw materials
- 47. EIT Urban Mobility
- 48. KIC Cultural and Creative Industries
- 49. Pandemic Preparedness and Societal Resilience

### DIGITAL, INDUSTRY AND SPACE

- 9. High Performance Computing 10. Key Digital Technologies
- 11. Smart Networks and Services
  - 12. Al, data and robotics
    - 13. Photonics Europe
- 14. Clean Steel Low Carbon Steelmaking 15. European Metrology
  - 16. Made in Europe
- 17. Carbon Neutral and Circular Industry 18. Global competitive space systems

### FOOD, BIOECONOMY, NATURAL RESOURCES, AGRICULTURE AND **ENVIRONMENT**

- 30. Accelerating farming systems transition 31. Animal health: Fighting infectious diseases
- 32. Environmental Observations for a sustainable EU agriculture 33. Rescuing biodiversity to safeguard life on Earth
- 34. A climate neutral, sustainable and productive Blue Economy
- 35. Safe and Sustainable Food System for People, Planet & Climate 36. Circular bio-based Europe







## Thank you for your attention

**Bavarian Research Alliance (BayFOR)** 

- @ Bavarian Research and innovation agency (BayFIA)
  - @ Enterprise Europe Network (EEN)



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